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Amendments to the Claims:

DEC 0 5 2006

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

- 1. (Canceled).
- (Currently Amended) A composition comprising:
 - a support; and
 - a portion of the support comprising a plurality of 2, 3, 4, 5, or 6 different building blocks; the different building blocks being independently immobilized on the support by covalent coupling, by an ionic interaction, or by a combination thereof.
- (Currently Amended) A composition comprising:
 - a support; and
 - a portion of the support comprising a plurality of 2, 3, 4, 5, or 6 different building blocks; the different building blocks being independently immobilized on the support by covalent coupling, by an ionic interaction, by hydrophobic interaction, or by a combination thereof.
- 4-5. (Canceled).
- 6. (Original) A composition comprising:
 a support, a functionalized lawn, and a plurality of building blocks;
 the functionalized lawn being coupled to the support;
 building blocks being reversibly immobilized on the lawn.
- 7. (Original) An article of manufacture comprising: a support, a functionalized lawn reagent, and a plurality of building blocks; the functionalized lawn being configured to be coupled to the support; the plurality of building blocks being configured to be reversibly coupled to the lawn.

- 8-9. (Canceled).
- 10. (New) The composition of claim 3, wherein the support comprises a first lipophilic moiety and the building block comprises a second lipophilic moiety.
- 11. (New) The composition of claim 10, wherein the first and second lipophilic moieties comprise independently branched or straight chain, substituted or unsubstituted C₆₋₃₆ alkyl; branched or straight chain, substituted or unsubstituted C₆₋₃₆ alkenyl with 1 to 4 double bonds; branched or straight chain, substituted or unsubstituted C₆₋₃₆ alkynyl with 1 to 4 triple bonds; branched or straight chain, substituted or unsubstituted C₆₋₃₆ arylalkyl; branched or straight chain, substituted O₆₋₃₆ arylalkenyl with 1 to 4 double bonds; branched or straight chain, substituted or unsubstituted C₆₋₃₆ arylalkynyl with 1 to 4 triple bonds; polyaromatic hydrocarbon; substituted or unsubstituted cycloalkane; or mixtures thereof.
- 12. (New) The composition of claim 3, wherein the support comprises a first covalent binding moiety and the building block comprises a second covalent bonding moiety, the first and second covalent bonding moieties forming a readily reversible covalent bond.
- 13. (New) The composition of claim 12, wherein:

the first covalent bonding moiety comprises an amine nitrogen and the second covalent bonding moiety comprises a carbonyl carbon;

the first covalent bonding moiety comprises a carbonyl carbon and the second covalent bonding moiety comprises an amine nitrogen;

or combination thereof.

- 14. (New) The composition of claim 3, wherein the support comprises a first charged moiety and the building block comprises a second charged moiety, the first and second charged moieties having opposite charges.
- 15. (New) The composition of claim 14, wherein

the first charged moiety comprises a carboxylate and the second charged moiety comprises an ammonium;

the first charged moiety comprises an ammonium and the second charged moiety comprises a carboxylate;

or combination thereof.

16. (New) The composition of claim 3, wherein:

the support comprises a first lipophilic moiety and a first covalent bonding moiety; and the building block comprises a second lipophilic moiety and a second covalent bonding moiety; the support comprises a first lipophilic moiety and a first charged moiety; and the building block comprises a second lipophilic moiety and a second charged moiety; or combination thereof.

- 17. (New) The composition of claim 6, wherein the functionalized lawn comprises a first lipophilic moiety and the building block comprises a second lipophilic moiety.
- 18. (New) The composition of claim 17, wherein the first and second lipophilic moieties comprise independently branched or straight chain, substituted or unsubstituted C_{6-36} alkeyl; branched or straight chain, substituted or unsubstituted C_{6-36} alkeyl with 1 to 4 double bonds; branched or straight chain, substituted or unsubstituted C_{6-36} alkynyl with 1 to 4 triple bonds; branched or straight chain, substituted or unsubstituted C_{6-36} arylalkyl; branched or straight chain, substituted or unsubstituted C_{6-36} arylalkenyl with 1 to 4 double bonds; branched or straight chain, substituted or unsubstituted C_{6-36} arylalkynyl with 1 to 4 triple bonds; polyaromatic hydrocarbon; substituted or unsubstituted cycloalkane; or mixtures thereof.
- 19. (New) The composition of claim 6, wherein the functionalized lawn comprises a first covalent binding moiety and the building block comprises a second covalent bonding moiety, the first and second covalent bonding moieties forming a readily reversible covalent bond.
- 20. (New) The composition of claim 19, wherein:

the first covalent bonding moiety comprises an amine nitrogen and the second covalent bonding moiety comprises a carbonyl carbon;

the first covalent bonding moiety comprises a carbonyl carbon and the second covalent bonding moiety comprises an amine nitrogen;

or combination thereof.

- 21. The composition of claim 6, wherein the functionalized lawn comprises a first charged moiety and the building block comprises a second charged moiety, the first and second charged moieties having opposite charges.
- 22. (New) The composition of claim 21, wherein

the first charged moiety comprises a carboxylate and the second charged moiety comprises an ammonium;

the first charged moiety comprises an ammonium and the second charged moiety comprises a carboxylate;

or combination thereof.

(New) The article of manufacture of claim 7, wherein:

the functionalized lawn comprises a first lipophilic moiety and a first covalent bonding moiety; and the building block comprises a second lipophilic moiety and a second covalent bonding moiety;

the functionalized lawn comprises a first lipophilic moiety and a first charged moiety; and the building block comprises a second lipophilic moiety and a second charged moiety; or combination thereof.

- 24. (New) The article of manufacture of claim 7, wherein the functionalized lawn comprises a first lipophilic moiety and the building block comprises a second lipophilic moiety.
- 25. (New) The article of manufacture of claim 24, wherein the first and second lipophilic moieties comprise independently branched or straight chain, substituted or unsubstituted C_{6-36} alkyl; branched or straight chain, substituted or unsubstituted C_{6-36} alkenyl with 1 to 4 double

bonds; branched or straight chain, substituted or unsubstituted C_{6-36} alkynyl with 1 to 4 triple bonds; branched or straight chain, substituted or unsubstituted C_{6-36} arylalkyl; branched or straight chain, substituted or unsubstituted C_{6-36} arylalkenyl with 1 to 4 double bonds; branched or straight chain, substituted or unsubstituted C_{6-36} arylalkynyl with 1 to 4 triple bonds; polyaromatic hydrocarbon; substituted or unsubstituted cycloalkane; or mixtures thereof.

26. (New) The article of manufacture of claim 7, wherein:

the functionalized lawn comprises a first lipophilic moiety and a first covalent bonding moiety; and the building block comprises a second lipophilic moiety and a second covalent bonding moiety;

the functionalized lawn comprises a first lipophilic moiety and a first charged moiety; and the building block comprises a second lipophilic moiety and a second charged moiety; or combination thereof.

- 27. (New) The article of manufacture of claim 7, wherein the functionalized lawn comprises a first covalent binding moiety and the building block comprises a second covalent bonding moiety, the first and second covalent bonding moieties forming a readily reversible covalent bond.
- 28. (New) The article of manufacture of claim 27, wherein:

the first covalent bonding moiety comprises an amine nitrogen and the second covalent bonding moiety comprises a carbonyl carbon;

the first covalent bonding moiety comprises a carbonyl carbon and the second covalent bonding moiety comprises an amine nitrogen;

or combination thereof.

- 29. (New) The article of manufacture of claim 7, wherein the functionalized lawn comprises a first charged moiety and the building block comprises a second charged moiety, the first and second charged moieties having opposite charges.
- 30. (New) The article of manufacture of claim 29, wherein

the first charged moiety comprises a carboxylate and the second charged moiety comprises an ammonium;

the first charged moiety comprises an ammonium and the second charged moiety comprises a carboxylate;

or combination thereof.